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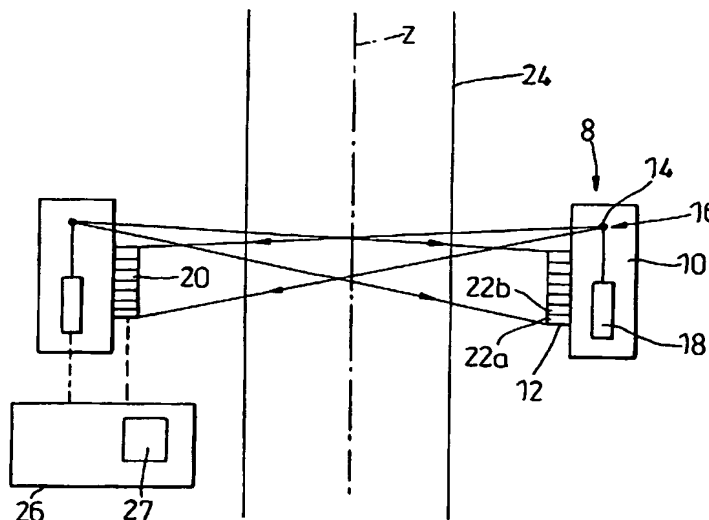
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[Continued on next page]

(54) Title: X-RAY MONITORING



(57) Abstract: Apparatus for monitoring in real time the movement of a plurality of substances in a mixture, such as oil water and air flowing through a pipe (24), comprises an X-ray scanner (8) arranged to make a plurality of scans of the mixture over a monitoring period to produce a plurality of scan data sets, and control means (26) arranged to analyse the data sets to identify volumes of each of the substances and to measure their movement. By identifying volumes of each of the substances in each of a number of layers and for each of a number of scans, real time analysis and imaging of the substance can be achieved.

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 228 353 A (JOHNSON ET AL) 14 October 1980 (1980-10-14) column 2, line 20 - line 59 column 3, line 59 - line 63 column 4, line 3 - line 44 column 5, line 5 - line 61 column 8, line 1 - column 9, line 38 column 14, line 54 - column 15, line 45 column 16, line 42 - line 46 figures 6,7,10 ----- -/--	1-32

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/60387 A (SCHLUMBERGER LIMITED; SCHLUMBERGER CANADA LIMITED; SCHLUMBERGER TECHNO) 25 November 1999 (1999-11-25) page 1, paragraph 3 page 4, paragraphs 2,3 page 7, paragraphs 1,4,5 page 8, paragraph 1 page 9, paragraph 3 page 15 figure 1b	1-32
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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